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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	synchroniz$4.clm. and gateway.clm. and cluster.clm. and node$1.clm. and irregular$4.clm. and predetermin$3.clm. and modif$4.clm. and backup.clm. and information.clm. and security.clm. and group.clm. and state.clm.	US-PGPUB; USPAT	OR	OFF	2006/10/23 21:26
L2	8	synchroniz$4 and gateway and cluster and node$1 and irregular$4 and predetermin$3 and modif$4 and backup and information and security and group and state	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/23 21:27
L3	56	726/12	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/23 21:28
L4	9395	726/3 or 726/23 or 713/201 or 709/208	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/23 21:28
L5	9411	4 or 3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/23 21:28
L6	2	5 and 2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/23 21:30
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1 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: full citation, references, citings,

2 IS '97: model curriculum and guidelines for undergraduate degree programs in information

Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs o undergraduate degree programs in information systems IS '97**, Volume 28 I

Publisher: ACM Press

Full text available: pdf(7.24 MB) Additional Information: full citation, citings

3 A scalable content-addressable network

Sylvia Ratnasamy, Paul Francis, Mark Handley, Richard Karp, Scott Schenker

August 2001 **ACM SIGCOMM Computer Communication Review , Proceedings of the 20 architectures, and protocols for computer communications SIGCOMM '01**,

Publisher: ACM Press

Full text available: pdf(155.64 KB) Additional Information: full citation, abstract, reference

Hash tables - which map "keys" onto "values" - are an essential building block in modern softw be equally valuable to large distributed systems. In this paper, we introduce the concept of a C infrastructure that provides hash table-like functionality on Internet-like scales. The CAN is scal we demonstrate its scalability, robustness and low ...

4 Hierarchically-organized, multihop mobile wireless networks for quality-of-service support

Ram Ramanathan, Martha Steenstrup

June 1998 **Mobile Networks and Applications**, Volume 3 Issue 1

Publisher: Kluwer Academic Publishers

Full text available: pdf(429.81 KB) Additional Information: full citation, abstract, reference

MMWN is a modular system of adaptive link- and network-layer algorithms that provides a foun service provision in large, multihop mobile wireless networks. Such networks are a practical me where none yet exists or where the previously existing infrastructure has been severely damag

diverse purposes as tactical maneuvering and strategic planning ...

5 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies o**
Publisher: IBM Press
Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, reference

Understanding distributed applications is a tedious and difficult task. Visualizations based on pr understanding of the execution of the application. The visualization tool we use is Poet, an ever However, these diagrams are often very complex and do not provide the user with the desired tools display repeated occurrences of non-trivial commun ...

6 Online Only: ACM Transactions on Design Automation of Electronic Systems, vol. 11, issu
Analysis and optimization of distributed real-time embedded systems
Paul Pop, Petru Eles, Zebo Peng, Traian Pop
June 2004 **ACM Transactions on Design Automation of Electronic Systems (TODAES) Design automation DAC '04**, Volume 11 Issue 3
Publisher: ACM Press
Full text available: pdf(1.00 MB) Additional Information: full citation, abstract, reference

An increasing number of real-time applications are today implemented using distributed hetero networks of processors. The systems are heterogeneous not only in terms of hardware and soft protocols and scheduling policies. In this context, the task of designing such systems is becomi design methods depends on the availability of efficient analysi ...

7 An active service framework and its application to real-time multimedia transcoding
Elan Amir, Steven McCanne, Randy Katz
October 1998 **ACM SIGCOMM Computer Communication Review , Proceedings of the AC technologies, architectures, and protocols for computer communication S**
Publisher: ACM Press
Full text available: pdf(1.80 MB) Additional Information: full citation, abstract, reference

Several recent proposals for an "active networks" architecture advocate the placement of user- mechanism to enable a wide range of new applications and protocols, including reliable multica attacks, intra-network real-time signal transcoding, and so forth. This laudable goal, however, and although a number of pioneering research efforts in active ...

8 Distributed systems - programming and management: On remote procedure call
Patrícia Gomes Soares
November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies o**
Publisher: IBM Press
Full text available: pdf(4.52 MB) Additional Information: full citation, abstract, reference

The Remote Procedure Call (RPC) paradigm is reviewed. The concept is described, along with th it. An overview of works in supporting these mechanisms is discussed. Extensions to the paradi are studied. The main contributions of this paper are a standard view and classification of RPC snapshot of the paradigm in use today and of goals for t ...

9 A taxonomy of Data Grids for distributed data sharing, management, and processing
Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao
June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1
Publisher: ACM Press
Full text available: pdf(1.70 MB) Additional Information: full citation, abstract, reference

Data Grids have been adopted as the next generation platform by many scientific communities

manage large data collections distributed worldwide. They combine high-end computing techno area storage management techniques. In this article, we discuss the key concepts behind Data distribution paradigms such as content delivery networks, peer-to-peer n ...

Keywords: Grid computing, data-intensive applications, replica management, virtual organizat

10 iMobile EE: an enterprise mobile service platform

Yih-Farn Chen, Huale Huang, Rittwik Jana, Trevor Jim, Matti Hiltunen, Sam John, Serban Jora, Rad
July 2003 **Wireless Networks**, Volume 9 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: pdf(2.90 MB) Additional Information: full citation, abstract, reference

iMobile[1] is an enterprise mobile service platform that allows resource-limited mobile devices to corporate contents and services. The original iMobile architecture consists of devlets that provic infolets that access and transcode information based on device profiles. iMobile Enterprise Editi architecture to address the security, ...

Keywords: content transcoding, middleware, mobile devices, mobile enterprise, mobile multin

11 Special issue on wireless pan & sensor networks: Design and analysis of Hybrid Indirect T micro sensor networks

Benjamin J. Culpepper, Lan Dung, Melody Moh
January 2004 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 8

Publisher: ACM Press

Full text available: pdf(440.82 KB) Additional Information: full citation, abstract, reference

Sensor networks have many potential applications in biology, physics, medicine, and the militar maximize network life under the constraint of limited power supply. The paper addresses energ gathering. A new protocol is proposed: Hybrid Indirect Transmission (HIT). HIT is based on a h each of which is based on multiple, multi-hop indirect transmiss ...

12 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse
December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

Publisher: ACM Press

Full text available: pdf(5.49 MB) Additional Information: full citation, abstract, reference

Distributed operating systems have many aspects in common with centralized ones, but they al introduction to distributed operating systems, and especially to current university research abo distributed operating system and how it is distinguished from a computer network, various key current research projects are examined in some detail ...

13 Notable computer networks

John S. Quarterman, Josiah C. Hoskins
October 1986 **Communications of the ACM**, Volume 29 Issue 10

Publisher: ACM Press

Full text available: pdf(4.66 MB) Additional Information: full citation, abstract, references, citings, ir

Computer networks are becoming more numerous and more diverse. Collectively, they constitu

14 Optimizing data aggregation for cluster-based internet services

Lingkun Chu, Hong Tang, Tao Yang, Kai Shen
June 2003 **ACM SIGPLAN Notices , Proceedings of the ninth ACM SIGPLAN symposiu**

programming PPoPP '03, Volume 38 Issue 10

Publisher: ACM Press

Full text available: pdf(275.38 KB) Additional Information: full citation, abstract, reference

Large-scale cluster-based Internet services often host partitioned datasets to provide incremen from multiple partitions is a fundamental building block for the delivery of these services. This p programming primitive -- Data Aggregation Call (DAC) -- to exploit partition parallelism for clus local processing operator and a global reduction ope ...

Keywords: cluster-based network services, fault tolerance, load-adaptive tree formation, resp

15 An architecture for secure wide-area service discovery

Todd D. Hodes, Steven E. Czerwinski, Ben Y. Zhao, Anthony D. Joseph, Randy H. Katz

March 2002 **Wireless Networks**, Volume 8 Issue 2/3

Publisher: Kluwer Academic Publishers

Full text available: pdf(365.68 KB) Additional Information: full citation, abstract, reference

The widespread deployment of inexpensive communications technology, computational resourc enabled end devices poses an interesting problem for end users: how to locate a particular netv accessible services and devices. This paper presents the architecture and implementation of a s Service providers use the SDS to advertise descriptions of available ...

Keywords: location services, name lookup, network protocols, service discovery

16 A quantitative analysis of cache policies for scalable network file systems

Michael D. Dahlin, Clifford J. Mather, Randolph Y. Wang, Thomas E. Anderson, David A. Patterson

May 1994 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 19 Measurement and modeling of computer systems SIGMETRICS '94**, Volume

Publisher: ACM Press

Full text available: pdf(1.42 MB) Additional Information: full citation, abstract, reference

Current network file system protocols rely heavily on a central server to coordinate file activity become a bottleneck that limits scalability for environments with large numbers of clients. In ce writes, cache misses, and coherence messages are handled by the server. To keep up with this configured with high-performance CPUs, memory systems, ...

17 Level II technical support in a distributed computing environment

Tim Leehane

September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User service**

Publisher: ACM Press

Full text available: pdf(5.73 MB) Additional Information: full citation, references, index te

18 Special issue on wireless pan & sensor networks: Efficient routing in PAN and sensor netv

P. Trakadas, Th. Zahariadis, S. Voliotis, Ch. Manasis

January 2004 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 8

Publisher: ACM Press

Full text available: pdf(137.52 KB) Additional Information: full citation, abstract, reference

Routing in both PANs and sensor networks can be significantly improved, if each node knows th signalling overhead and power loss, given the frequent network topology changes. In order to c communications /power limitations, various algorithms have been proposed. In this paper, a se classified according to their relevancy and efficiency, when applied to PANs ...

19 Reliability constrained routing in QoS networks



Anirban Chakrabarti, G. Manimaran

June 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 3

Publisher: ACM Press

Full text available: pdf(459.12 KB) Additional Information: full citation, abstract, reference

The issue of handling network failures is becoming increasingly important. In this paper, we ad reliability as one of the QoS requirements.The problem is to create a feasible path from a given reliability requirements of the path are satisfied and the cost of the path is minimized (Reliabilit the problem, we propose an approach which employs a ...

Keywords: constrained routing, fault-tolerant routing, multicasting, resource reservation

20 OceanStore: an architecture for global-scale persistent storage



John Kubiatowicz, David Bindel, Yan Chen, Steven Czerwinski, Patrick Eaton, Dennis Geels, Ramak Chris Wells, Ben Zhao

November 2000 **ACM SIGARCH Computer Architecture News , ACM SIGOPS Operating Syst international conference on Architectural support for programming langu** 28 , 34 Issue 5 , 5

Publisher: ACM Press

Full text available: pdf(166.53 KB) Additional Information: full citation, abstract, reference

OceanStore is a utility infrastructure designed to span the globe and provide continuous access comprised of untrusted servers, data is protected through redundancy and cryptographic techni cached anywhere, anytime. Additionally, monitoring of usage patterns allows adaptation to regi also enhances performance through pro-active movement ...

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